



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
27.06.2007 Bulletin 2007/26

(51) Int Cl.:
F16H 7/08 (2006.01)

(43) Date of publication A2:
14.09.2005 Bulletin 2005/37

(21) Application number: **05003224.2**

(22) Date of filing: **16.02.2005**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR LV MK YU

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(30) Priority: **08.03.2004 JP 2004064587**

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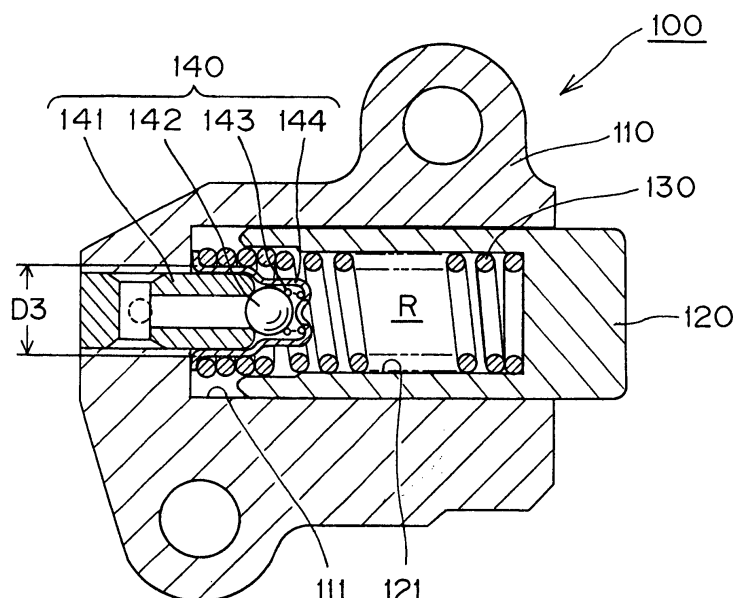
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(54) **Hydraulic tensioner**

(57) A hydraulic tensioner (100) comprises a hollow plunger (120) slidable in a plunger-accommodating hole (111) in a housing (110), the plunger (120) and housing (110) forming a high pressure oil chamber (R). A check valve unit (140), which includes a check ball (142) and a check ball retainer (144), allows oil to flow into the high pressure oil chamber (R), but prevents reverse flow. A plunger-biasing spring (130), disposed inside the high-

pressure chamber (R) includes a close-wound first portion (131) fitting over the retainer (144) of the check valve unit (140), and a second portion (132) having spaced windings, which extends and compresses axially with protruding and retracting movement of the plunger (120). The outer diameter (D1) of the close-wound first portion (131) is greater than the outer diameter (D2) of the second portion (132) having spaced windings.

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Application Number
EP 05 00 3224

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The present search report has been drawn up for all claims				
Place of search The Hague		Date of completion of the search 22 May 2007	Examiner Goeman, Frits	
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5
EPO FORM 1503 03.82 (P04C01)



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5
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EP 05 00 3224

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